

Title (en)
HARD SURFACE CLEANERS INCLUDING FLUOROSURFACTANTS

Title (de)
REINIGER FÜR HARTE OBERFLÄCHEN MIT FLUORHALTIGEN TENSIDEN

Title (fr)
PRODUITS NETTOYANTS DE SURFACES DURES COMPRENANT DES TENSIOACTIFS FLUORÉS

Publication
EP 3792338 A1 20210317 (EN)

Application
EP 20205898 A 20171127

Priority
• US 201662426672 P 20161128
• EP 17808733 A 20171127
• US 2017063267 W 20171127

Abstract (en)
Hard surface, in particular glass, cleaners having an ease in wipe-out while providing good cleaning with a streak-free, glossy shine are described. The cleaner includes at least one fluorosurfactant including a fluorinated functional group with 2 to 6 carbon atoms, and a hydrophilic moiety; at least one non-fluorinated surfactant; a combination of solvents; a combination of cleaning agents; and water.

IPC 8 full level
C11D 1/00 (2006.01); **C11D 1/14** (2006.01); **C11D 3/04** (2006.01); **C11D 3/20** (2006.01); **C11D 3/24** (2006.01); **C11D 3/30** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)
C11D 1/004 (2013.01 - EP); **C11D 1/006** (2013.01 - US); **C11D 1/28** (2013.01 - US); **C11D 1/83** (2013.01 - US); **C11D 3/044** (2013.01 - EP US); **C11D 3/20** (2013.01 - EP US); **C11D 3/2003** (2013.01 - US); **C11D 3/2006** (2013.01 - EP US); **C11D 3/2041** (2013.01 - US); **C11D 3/2044** (2013.01 - US); **C11D 3/2068** (2013.01 - EP US); **C11D 3/245** (2013.01 - EP US); **C11D 3/30** (2013.01 - EP US); **C11D 3/43** (2013.01 - US); **C11D 17/0008** (2013.01 - EP US); **C11D 1/004** (2013.01 - US); **C11D 1/143** (2013.01 - EP US); **C11D 2111/18** (2024.01 - EP US)

Citation (search report)
• [YA] GB 2166153 A 19860430 - PROCTER & GAMBLE
• [Y] WO 2009105453 A1 20090827 - JOHNSON DIVERSEY INC [US], et al
• [Y] WO 9730140 A1 19970821 - STEPAN CO [US], et al
• [Y] STEFFEN SCHELLENBERGER, JÖRG PAHNKE, REINER FRIEDRICH, GERHARD JONSCHLER: "A new Generation of High-Speed Fluorosurfactants", 1 May 2015 (2015-05-01), Darmstadt, Germany, XP002777640, Retrieved from the Internet <URL:https://www.pcmag.com/articles/97759-a-new-generation-of-high-speed-fluorosurfactants> [retrieved on 20180124]
• [A] ANONYMOUS: "DuPont Capstone FS-65 fluorosurfactant", 2011, pages 2PP, XP002777641, Retrieved from the Internet <URL:http://www2.dupont.com/Capstone/en_US/assets/downloads/Capstone_FS65_TDS_K23568_Capstone_FS-65_07march2011.pdf> [retrieved on 20180125]
• [A] ANONYMOUS: "DuPont Capstone FS-10 fluorosurfactant", 2008, pages 2PP, XP002777642, Retrieved from the Internet <URL:https://www.chemours.com/Capstone/en_US/assets/downloads/capstone_fs_10.pdf> [retrieved on 20180125]
• [A] ANONYMOUS: "DuPont Capstone fluorosurfactants- high value in use applications that require maximum performance", 4 October 2014 (2014-10-04), pages 1 - 8, XP002777639, Retrieved from the Internet <URL:https://web.archive.org/web/20141004100142/http://www2.dupont.com/Capstone/en_US/assets/downloads/DuPont(TM)_Capstone(R)_Fluorosurfactants_Brochure_K-24287.pdf> [retrieved on 20180123]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 11884897 B2 20240130; **US 2018148667 A1 20180531**; CN 110023468 A 20190716; EP 3545061 A1 20191002; EP 3545061 B1 20220309; EP 3792338 A1 20210317; MX 2019006174 A 20190812; WO 2018098428 A1 20180531

DOCDB simple family (application)
US 201715822283 A 20171127; CN 201780073687 A 20171127; EP 17808733 A 20171127; EP 20205898 A 20171127; MX 2019006174 A 20171127; US 2017063267 W 20171127